

**CLAIMS**

What is claimed is:

- 1        1.    A light comprising:  
2            an acrylic rod having a first end and a second  
3        end;  
4            a first circuit board including one or more  
5        electrical-to-optical converters to generate photons;  
6        and  
7            a first end housing having a first opening  
8        through which the first end of the acrylic rod is  
9        inserted, the first end housing to house the first  
10       circuit board and align the one or more electrical-  
11       to-optical converters of the first circuit board with  
12       the first opening and the first end of the acrylic  
13       rod.
- 1       2.    The light of claim 1, wherein  
2       the acrylic rod is clear.
- 1       3.    The light of claim 1, wherein  
2       the acrylic rod is cylindrical.
- 1       4.    The light of claim 1, further comprising:  
2            a second circuit board including one or more  
3        electrical-to-optical converters to generate photons;  
4        and  
5            a second end housing having a second opening  
6        through which the second end of the acrylic rod is  
7        inserted, the second end housing to house the second  
8        circuit board and align the one or more electrical-  
9        to-optical converters of the second circuit board  
10       with the second opening and the second end of the  
11       acrylic rod.

1        5.    The light of claim 1, wherein  
2        the one or more electrical-to-optical converters of  
3        the first circuit board are light emitting diodes (LEDs).

1        6.    The light of claim 5, wherein  
2        the one or more light emitting diodes (LEDs) emit an  
3        incoherent light for dispersion out of the acrylic rod.

1        7.    The light of claim 1, wherein  
2        the length of the acrylic rod is proportional to a  
3        desired wavelength and frequency of light.

1        8.    The light of claim 1, wherein  
2        the diameter of the acrylic rod is proportional to a  
3        desired wavelength and frequency of light.

1        9.    The light of claim 1, further comprising:  
2        a first reflector coupled to the first circuit board  
3        around the one or more electrical-to-optical converters at  
4        a first end, a second end of the first reflector aligned  
5        with the first opening and receiving the first end of the  
6        acrylic rod, the first reflector to reflect photons into  
7        the acrylic rod.

1        10.   The light of claim 1, further comprising:  
2        a reflective strip coupled down the length of the  
3        acrylic rod to reflect photons out of the acrylic rod.

1        11.   The light of claim 10, wherein  
2        the reflective strip encompasses one hundred eight  
3        degrees of a diameter of a circular cylindrical acrylic  
4        rod.

1        12.   The light of claim 10, wherein

2 the reflective strip encompasses ninety degrees of a  
3 diameter of a circular cylindrical acrylic rod.

1 13. The light of claim 10, wherein  
2 the reflective strip encompasses forty five degrees  
3 of a diameter of a circular cylindrical acrylic rod.

1 14. The light of claim 1, wherein  
2 the photons are coupled into the acrylic rod and  
3 radiated outward therefrom without the use of a fragile  
4 glass bulb or filament.

1 15. The light of claim 1, wherein  
2 the light is mounted to a rack to light rack mounted  
3 equipment.

1 16. The light of claim 1, wherein  
2 the light is a light fixture to mount to a surface to  
3 illuminate an area.

1 17. The light of claim 1, further comprising:  
2 an electrical-to-optical controller coupled to  
3 the first circuit board to control the one or more  
4 electrical-to-optical converters; and  
5 an on/off switch to switch the generation of  
6 photons by the one or more electrical-to-optical  
7 converters on and off.

1 18. The light of claim 17, further comprising:  
2 an intensity selection switch to vary the  
3 brightness of the generated light.

1 19. The light of claim 17, further comprising:  
2 a color selection switch to selectively choose  
3 the mixture of primary colors generated by the one or

4 more electrical-to-optical converters to vary the  
5 color of the generated light.

1 20. The light of claim 1, further comprising:  
2 a transformer to transform AC power to a safe  
3 efficient power to power the one or more electrical-  
4 to-optical converters of the first circuit board in  
5 an efficient manner.

1 21. A method of lighting without a light bulb, the  
2 method comprising:  
3 generating first photons of a desired color;  
4 coupling the first photons into a first end of an  
5 acrylic rod; and  
6 radiating the first photons out of the acrylic rod as  
7 light.

1 22. The method of claim 21, further comprising:  
2 generating second photons of the desired color;  
3 coupling the second photons into a second end of the  
4 acrylic rod; and  
5 radiating the second photons out of the acrylic rod  
6 as light.

1 23. The method of claim 21, further comprising:  
2 varying a mixture of the first photons to change the  
3 color of the light.

1 24. The method of claim 21, further comprising:  
2 uniformly varying the mixture of the first photons  
3 generated and coupled into the acrylic rod to vary the  
4 intensity of the light.

1 25. The method of claim 21, wherein,  
2 the acrylic rod is cylindrically shaped.

1           26. The method of claim 21, wherein,  
2           the acrylic rod is clear.

1           27. The ornamental design for a light, as shown and  
2           described.

1           28. The ornamental design for a transparent rod for  
2           a light, as shown and described.